

What is claimed is:

1. A cable location continuously determining apparatus which determines the location of a cable buried in the ground comprising:

5           a first electromagnetic signal receiving section which receives an electromagnetic signal originating from alternating current flowing through a metallic wire which is integrated or attached to a cable which is the subject of determination;  
            a second electromagnetic signal receiving section whose position in a horizontal plane is different from a position in the horizontal plane of the first electromagnetic  
10          signal receiving section and which receives the electromagnetic signal;

            a location data acquiring section which acquires location data including latitude and longitude of a predetermined location with respect to the apparatus itself;

            a first location calculation section which calculates location data of the cable which is the subject of determination when taking the predetermined location as a  
15          standard using the electromagnetic signal received by the first electromagnetic signal receiving section and the electromagnetic signal received by the second electromagnetic signal receiving section, and which calculates the depth of the cable which is the subject of determination using the calculated location data; and

            a second location calculation section which calculates plane location data of the  
20          cable which is the subject of determination using the location data acquired by the location data acquiring section and the location data calculated by the first location calculation section.

2. A cable location continuously determining apparatus according to claim 1, further  
25          comprising a display section which displays information relating to the location of the

cable which is the subject of determination based on the location data of the cable calculated by the first location calculation section.

3. A cable location continuously determining apparatus according to claim 1, wherein the  
5 location data acquiring section acquires the location data of the predetermined location by using RTK-GPS.

4. A cable location continuously determining method carried out by a cable location continuously determining apparatus which determines the location of a cable buried in  
10 the ground, the method comprising:

a location data acquiring step which acquires location data including latitude and longitude of a predetermined location with respect to the apparatus itself;

a first location calculation step which receives an electromagnetic signal originating from alternating current flowing through a metallic wire which is integrated  
15 or attached to a cable which is the subject of determination using a first electromagnetic signal receiving section and a second electromagnetic signal receiving section whose position in the horizontal plane is different from a position in the horizontal plane of the first electromagnetic signal receiving section, and which calculates location data of the cable which is the subject of determination when taking the predetermined location as a  
20 standard using the received electromagnetic signal, and which calculates the depth of the cable which is the subject of determination using the calculated location data; and

a second location calculation step which calculates plane location data of the cable which is the subject of determination using the location data acquired by the location data acquiring step and the location data calculated by the first location  
25 calculation step.

5. A cable location continuously determining program which makes a computer function as a cable location continuously determining apparatus which determines the location of a cable buried in the ground, the apparatus comprising:

5           a location data acquiring section which acquires location data including latitude and longitude of a predetermined location with respect to the apparatus itself;

          a first location calculation section which receives an electromagnetic signal originating from alternating current flowing through a metallic wire which is integrated or attached to a cable which is the subject of determination using a first electromagnetic  
10   signal receiving section and a second electromagnetic signal receiving section whose position in the horizontal plane is different from a position in the horizontal plane of the first electromagnetic signal receiving section, which calculates location data of the cable which is the subject of determination when taking the predetermined location as a standard using the received electromagnetic signal, and which calculates the depth of the  
15   cable which is the subject of determination using the calculated location data; and

          a second location calculation section which calculates plane location data of the cable which is the subject of determination using the location data acquired by the location data acquiring section and the location data calculated by the first location calculation section.